Journal of Sedimentary Petrology

INDEX TO VOLUME 36

A Comparative Study of the Newcastle and Illawarra Coal Measure Sediments of the Sydney Basin, New South Wales..... 1016
A Critique of Methods for Comparing Heavy Mineral Suites..... 57
A Detailed Study of Microfacies in the Mid-Visean (S_2–D_1) Limestones near Hartington, Derbyshire, England..... 864
A Discussion of the Paper: Fault Plane Features: An Alternate Explanation, by R. E. Riecker..... 1163
A Mineralogical Study of Some Lower Devonian (Helderberg) Rocks of the Central Hudson Valley, New York..... 775
A Modified Woods Hole Rapid Sediment Analyzer..... 403
A Peat Landslide in Sarawak, Malaysia, and its Significance in Relation to Washouts in Coal Seams..... 244
A Portrait of Paul D. Krynine..... 850
A Preliminary Investigation, Color Variations with Glacial Till, East-Central North Dakota..... 75
A Profile of the Four Moment Measures Perpendicular to a Shore Line, South Haven, Michigan..... 1126
A Sample Splitter for Moist, Saturated or Suspended Sediment..... 632
A Study of the Relations of Depth, Porosity and Clay Mineral Orientation in Pennsylvanian Shales..... 888
A Tubular Spring Valve Used as a Tight and Thin-Walled Core-Retainer..... 973
Abundance, Reliability of Visual Estimates of Grain..... 81
Alacran Reef Lagoon, Mexico, Coral Pinnacle Sedimentation..... 1058
Alaska, Effects of the 1964 Alaskan Earthquake on Some Shallow-Water Sediments in Prince William Sound, Southeast..... 992
Alaskan Earthquake on Some Shallow-Water Sediments in Prince William Sound, Southeast Alaska, Effects of the 1964..... 992
Algal Cap for Niagaran (Silurian) Carbonate Mud Mound of Indiana..... 455
Allen, J. R. L., note by..... 806
Analysis of Carbonates in Unconsolidated Sediments, On the Routine..... 622
Analysis of Clay Minerals, Preparation of Oriented Slides for X-ray..... 1143
Analysis of the Fine Particles in Sandstone, Separation by Ultrasonic Elutriation and.. 1152
Analysis in Determining Depositional Environments from Grain-Size Distributions, The Use of Factor..... 115
Analytical Methods for the Regional Geochemical Study of a Subsurface Carbonate Formation, Evaluation of Sampling and..... 755
Analyzer, A Modified Woods Hole Rapid Sediment..... 403
Ancient Deposits, Morphometric Data of Some Recent Pebble Associations and their Application to..... 126
Ankerite in the Green River Formation's Mahogany Zone..... 486
Anatarctica, Petrology of Some Beacon Rocks Between the Axel Heiberg and Shackelton Glaciers Queen Maude Range,..... 794
Apatite Mixtures by X-ray Diffraction, Quantitative Determination of Calcite-Dolomite.. 358
Application to Ancient Deposits, Morphometric Data of Some Recent Pebble Associations and their..... 126
Aragonite to Calcite with Examples from the Cretaceous of Texas, Processes of Conversion of..... 733
Areal Distribution of Surface Sand Facies in the Breckland, Eastern England, Regional and Local Components in the..... 209
Areal Measurements in Estimating Grain Size, Precision of Linear and..... 397
Argentina, Soil Clay Mineralogy of the Pampa Plains..... 1026
Arithmetic Means of Circular Data..... 50
Ash, Textural Comparison of John Day Volcanic Siltstone with Loess and Volcanic..... 706
Asia, Continental Shelf Sediments off Northeastern..... 152
Associated with the Unconformity at the Base of the Devonian Onondaga Limestone in New York State, Collophane..... 260
Associations and their Application to Ancient Deposits, Morphometric Data of Some Recent Pebble..... 126
Auto-Suspension, Small-Scale Models of Turbidity Currents and the Criterion for..... 202
Axel Heiberg and Shackelton Glaciers, Queen Maud Range, Antarctica, Petrology of Some Beacon Rocks Between the..... 794

Backset Bedding Developed in Shooting Flow in Laboratory Experiments..... 820
Baker, C. H., and Kelly, T. E., article by..... 75
Baker, J. V., McManus, D. A., and Hanson, L. G., notes by..... 632
Balance in the Ocean and Early Diagenesis, Silica-Bicarbonate..... 1075
Banks in Montana, Limestone Diagenesis and Dolomitization in Mississippian Carbonate. 764
Bar Sand, Opal, Zeolites, and Clays in an Eocene Neritic..... 248
Barrett, P. J., article by..... 794
Barrett, P. J., article by..... 992
Barthel, K. W., note by..... 1156
Bartow, J. A. article by..... 700
Base of the Devonian Onondaga Limestone in New York State, Collophane Associated with the Unconformity at the..... 260
Basin, Kempsey, New South Wales, Carboniferous Subaqueous Mass-Movement in the Manning-Macleay..... 719
Basin, New South Wales, A Comparative Study of the Newcastle and Illawarra Coal Measure Sediments of the Sydney..... 1016
Basin, Utah, Oriented, Linear-Shrinkage Cracks in Green River Formation (Eocene), Raven Ridge Area, Uinta..... 1050

Bayliss, P., and Frankel, J. J., article by 193
Beach Salcrete at Rockaway Point, New York, Heavy Mineral Concentration and Sastrugi-Like Deflation Furrows in a 836
Beaches North of San Francisco, Sand Movement along Equilibrium 341
Beacon Rocks Between the Axel Heiberg and Shackelton Glaciers, Queen Maud Range, Antarctica, Petrology of Some 794
Beckmann, D. D., and Picard, M. D., article by . 506
Bed, Regional Patterns of Cross-Laminae and Convolutions in a Single 225
Bedding Developed in Shooting Flow in Laboratory Experiments, Backset 820
Beds of Niagaran (Silurian) Reef, Lapel, Indiana, Turbidites in Dolomitized Flank 563
Bentonites of Iowa, Ordovician Potassium 414
Bernard, H. A., Ginsburg, R. N., Moody, R. A., and Daigle, E. E., article by 1118
Bicarbonate Balance in the Ocean and Early Diagenesis, Silica 1075
Bihar, India, Lower Gondwana Sedimentation in Saharjuri Coalfield 960
Blocks and Grains, The Expected Shapes of 622
Bohemia, Geochemical Evolution of Clayey and Carbonate Sediments of Early Paleozoic of Central 230
Bonorino, Felix Gonzalez, article by 1026
Borst, Roger L., article by 775
Bottom Sediments of Lake Nicaragua and Lake Managua, Western Nicaragua 522
Braithwaite, C. J. R., article by 176
Breckland, Eastern England, Regional and Local Components in the Areal Distribution of Surface Sand Facies in the 209
Briggs, David S. McCulloch and Frank Moser, Discussion of Article "The Hydraulic Shape of Sand Particles" by Louis I. 271
Briggs, Louis I., Reply to Stringham's Discussion 272
British Honduras, Genesis of Recent Lime Mud in Southern 428
Bromberger, S. H., and Hayes, J. B., article by . . 358
Brown, P. R., note by 1149
Buttonwood Sound, Florida Bay, Relationship of Sediment-Size Distribution to Ecologic Factors in 66

Calcite-Dolomite-Apatite Mixtures by X-ray Diffraction, Quantitative Determination of 358
Calcite with Examples from the Cretaceous of Texas, Processes of Conversion of Aragonite to 733
California, Deep Submarine Channel in Upper Miocene, Orange County, ... 700
Cambrian, Primary Dolostone Patterns in the Utah-Nevada Middle 548
Cameron, E. M., article by 755
Campbell, C. V., note by 825
Cap for a Niagaran (Silurian) Carbonate Mud Mound of Indiana, Algal 454
Carbonate Banks in Montana, Limestone Diagenesis and Dolomitization in Mississippian 764
Carbonate Formation, Evaluation of Sampling and Analytical Methods for the Regional Geochemical Study of a Subsurface 755
Carbonate Identification and Genesis as Revealed by Staining 491
Carbonate Members of the Swope add Dennis Formations (Pennsylvanian), Missouri and Iowa, Petrology of the 576
Carbonate Mud Mound of Indiana, Algal Cap for a Niagaran (Silurian) 455
Carbonate Rocks, Petrogenetic Classification of 317
Carbonate Sediments, Experimental Compaction Effects in 747
Carbonate Sediments of Early Paleozoic of Central Bohemia, Geochemical Evolution of Clayey and 230
Carbonate Sediments of the Red Sea and Their Implications on Marine Lithification, Deep-Sea 143
Carbonates in Unconsolidated Sediments, On the Routine Analysis of 622
Carboniferous of Northern England, Shale Grit and Grindslow Shales: Transition from Turbidite to Shallow Water Sediments in the Upper 90
Carboniferous) of South Prembrokeshire, Wales, Deformation Structures of Sedimentary Origin in the Lower Limestone Shales (Basal 927
Carboniferous Subaqueous Mass-Movement in the Manning-Macleay Basin, Kempsey, New South Wales 719
Carozzi, A. V., and Frost, S. H., article by 563
Cementation, Experimental Study of Sandstone 977
Central Bohemia, Geochemical Evolution of Clayey and Carbonate Sediments of Early Paleozoic of 230
Champlin, J. B. F., and Thomas, R. D., note by . 1152
Channel in Upper Miocene, Orange County, California, Deep Submarine 700
Chatterjee, B. K., note by 268
Chemical Properties Reviewed, Sediments from Long Island Sound (New York): Physical and 234
Cherry, J. A., article by 341
Chorley, R. J., and Stoddardt, D. R., Haggett P., and Slaymaker, H. O., article by 209
Chugwater Formation (Triassic), West-Central Wyoming, Petrography of Red Peak Member 904
Circular Data, Arithmetic Means of 50
Classification of Carbonate Rocks, Petrogenetic . 317
Clastic Rocks, Some Deductions on the temporal Significance of Laminae Deposited by Current Action in 880
Clastic Sediments: by Basanta K. Sahu, Discussion of Article "Transformation of Weight Frequency nad Number Frequency Data in Size Distribution Studies of 273
Clay Mineral Orientation in Pennsylvanian Shales, A Study of the Relations of Depth. Porosity and 888
Clay Mineralogy of the Pampa Plains, Argentina, Soil 1026
Clay Minerals, Preparation of Oriented Slides for X-ray Analysis of 1143
Clayey and Carbonate Sediments of Early Paleozoic of Central Bohemia, Geochemical Evolution 230
Clays and Sands—a Review, Factors Influencing the Early Stages of the Compaction of . . 1085
Clays in an Eocene Neritic Bar Sand, Opal, Zeolites, and 248
Clays in Slumps and Turbidity Flows, Thixotropy and the Mobilization of 270
Clifton, H. E., notes by 620
Coal Measure Sediments of the Sydney Basin, New South Wales, A Comparative Study of the Newcastle and Illawarra 1016

Coal Seams, A Peat Landslide in Sarawak, Malaysia and its Significance in Relation to Washouts in 244
Coalfield, Bihar, India, Lower Gondwana Sedimentation in Saharjuri 960
Coarse-Fine Sediments, Terminology of Mixed .. 831
Collophane Associated with the Unconformity at the Base of the Devonian Onondaga Limestone in New York State 260
Color Variations within Glacial Till, East-Central North Dakota—A Preliminary Investigation 75
Compaction Effects in Carbonate Sediments, Experimental 747
Compaction of Clays and Sands—a Review, Factors Influencing the Early Stages of the . 1085
Comparing Heavy Mineral Suites, A Critique of Methods for 57
Comparison of John Day Volcanic Siltstone with Loess and Volcanic Ash, Textural 706
Components in the Areal Distribution of Surface Sand Facies in the Breckland, Eastern England, Regional and Local 209
Composite Nature of Silurian Flysch Sandstones Shown by Groove Molds on Intra-Bed Surfaces, Peeblesshire, Scotland 237
Concentration and Sastrugi-Like Deflation Furrows in a Beach Salcrete at Rockaway Point, New York, Heavy Mineral 836
Concentrations of Molluskan Shells, Relationship Between Depositional Envirnoment and Uranium 541
Concentric marks: Current Indicators 1156
Connor, C. W. and Ferm, J. C., article by 397
Content, Mojave Playa Crusts: Physical Properties and Mineral 377
Continental Shelf Edge, Oolites on the Georgia .. 462
Continental Shelf Sediments off Northeastern Asia 152
Continental Shelf of Israel, The Distribution of Heavy Minerals and their Hydraulic Equivalents in Sediments of the Mediterranean . 162
Convex Geometric Particles, Effect of Shape upon the Settling Velocity of Regular 370
Convolutions in a Single Bed, Regional Patterns of Cross-Laminae and 225
Coring Technique for Unconsolidated Wet Sand, Plastic-Tube 241
Cotter, Edward, article by 764
Conversion of Aragonite to Calcite with Examples from the Cretaceous of Texas, Processes of 733
Coral Pinnacle Sedimentation, Alacran Reef Lagoon, Mexico 1058
Core-Retainer, A Tubular Spring Valve Used as a Tight and Thin-Walled 973
Cores of Unconsolidated Sediments, The Shell Method of Impregnating 1118
Counting Suitable for Fine Grained Sandstones, Improved Methods of Heavy Mineral Separation and 629
Cracks in Green River Formation (Eocene), Raven Ridge Area, Uinta Basin, Utah, Oriented, Linear-Shrinkage 1050
Cretaceous of Texas, Processes of Conversion of Aragonite to Calcite with Examples from the 733
Criterion for Auto-Suspension, Small-Scale Models of Turbidity Currents and the 202
Critique of Methods for Comparing Heavy Mineral Suites, A 57
Cross-Laminae and Convolutions in a Single Bed, Regional Patterns of 225
Cross-Stratification Formed by the Lateral Migration of Shallow Streams, Planar 742
Cross-Stratification, Studies on Orientation and Imbrication of Pebbles with Respect to 362
Crusts: Physical Properties and Mineral Content, Mojave Playa 377
Crystal Molds in Dolomite: Their Origin and Environmental Interpretation 221
Current Action in Clastic Rocks, Some Deductions on the Temporal Significance of Laminae Deposited by 880
Current Indicators, Concentric Marks: 1156
Currents and the Criterion for Auto-Suspension, Small-Scale Models of Turbidity 202

Daigle, E. E., Ginsburg, R. N., Bernard, H. A., and Moody, R. A., article by 1118
Data, Arithmetic Means of Circular 50
Data in Size Distribution Studies of Clastic Sediments" by Basanta K. Sahu, Discussion of Article "Transformation of Weight Frequency and Number Frequency 273
Data of Some Recent Pebble Associations and their Application to Ancient Deposits Morphometric 126
Davis, R. A., Jr., note by 813
Day, D. P, and Dobell, J. P., note by 254
Deep Submarine Channel in Upper Miocene, Orange County, California 700
Deep-sea Carbonate Sediments of the Red Sea and their Implications on Marine Lithification 143
Deflation Furrows in a Beach Salcrete at Rockaway Point, New York, Heavy Mineral Concentration and Sastrugi-Like 837
Deformation Structures of Sedimentary Origin in the Lower Limestone Shales (Basal Carboniferous) of South Pembrokeshire, Wales 927
Dennis Formations (Pennsylvanian), Missouri and Iowa, Petrology of the Carbonate Members of the Swope and 576
Dennison, J. M. and Shea, J. H., article by 81
Depth, Porosity and Clay Mineral Orientation in Pennsylvanina Shales, A Study of the Relations of 888
Deposited by Current Action in Clastic Rocks, Some Deductions on the Temporal Significance of Laminae 880
Depositional Environment and Uranium Concentration of Molluskan Shells, Relationship Between 541
Depositional Environments from Grain-Size Distributions, The Use of Factor Analysis in Determining 115
Deposits from Natal and Zululand, South Africa, Ferruginized Surface 193
Deposits, Morphometric Data of Some Recent Pebble Associations and their Application to Ancient 126
Deposits, The properties of Glacial Loess and the Formation of Loess 669
Deposits, with Examples from the Devonian of Spitsbergen, High and Low Sinuosity Stream 1102
Derbyshire, England, A Detailed Study of Microfacies in The Mid-Visean (S_2–D_1) Limestones near Hartington 864
Determination of Calcite-Dolomite-Apatite Mixtures by X-ray Diffraction, Quantitative 358
Determining Depositional Environments from

Grain-Size Distributions, the Use of Factor Analysis in ... 115
Devon, England, The Petrology of Middle Devonian Limestones in South ... 176
Devonian (Helderberg) Rocks of the Central Hudson Valley, New York, A Mineralogical Study of Some Lower ... 775
Devonian Limestones in South Devon, England, The Petrology of Middle ... 176
Devonian) near Toledo, Ohio, Dolomite-Insoluble Residue Relationships in the Ten Mile Creek Dolomite (Middle ... 828
Devonian, of Spitsbergen, High and Low Sinuosity Stream Deposits, with Examples from the ... 1102
Devonian of Western Utah, Selective Dolomitization and the Origin of White Dolomitic Marble Bodies in the Middle ... 602
Devonian Onondaga Limestone in New York State, Collophane Associated with the Unconformity at the Base of the ... 260
Diagenesis and Dolomitization in Mississippian Carbonate Banks in Montana, Limestone ... 764
Diagenesis in Upper Jurassic Limestones of Southern England, Silica ... 1036
Diagenesis of Mio-Pliocene Rocks of the Silver Peak Range, Esmeralda County, Nevada, Zeolitic ... 1007
Diagenesis, Silica-Bicarbonate Balance in the Ocean and Early ... 1075
Dickson, J. A. D., article by ... 491
Diffraction Equipment, X-ray Radiography with X-ray ... 620
Diffraction, Quantitative Determination of Calcite-Dolomite-Apatite Mixtures by X-ray ... 358
Discussion of Article "The Hydraulic Shape of Sand Particles" by Louis I. Brigs, David S. McCullock and Frank Moser ... 271
Discussion of Article "Transformation of Weight Frequency and Number Frequency Data in Size Distribution Studies of Clastic Sediments" by Basanta K. Sahu ... 273
Discussion of the Paper: Fault Plane Features: An Alternate Explanation, by R. E. Riecker, A ... 1163
Disruptor as an Aid to Wet Sieving, Using an Ultrasonic ... 811
Distribution of Heavy Minerals and their Hydraulic Equivalents in Sediments of the Mediterranean Continental Shelf of Israel, The ... 162
Distribution of Surface Sand Facies in the Breckland, Eastern England, Regional and Local Components in the Areal ... 209
Distribution Studies of Clastic Sediments" by Basanta K. Sahu, Discussion of Article "Transformation of Weight Frequency and Number Frequency Data in Size ... 273
Distribution to Ecologic Factors in Buttonwood Sound, Florida Bay, Relationship of Sediment-Size ... 66
Distributions, The Use of Factor Analysis in Determining Depositional Environments from Grain-Size ... 115
Dixon, M. A., Discussion by ... 273
Dobell, J. P., and Day, D. P., note by ... 254
Dodd, J. R., article by ... 733
Dolomite-Apatite Mixtures by X-ray Diffraction, Quantitative Determination of Calcite ... 358
Dolomite-Insoluble Residue Relationships in the Ten Mile Creek Dolomite (Middle Devonian) near Toledo, Ohio ... 828
Dolomite (Middle Devonian) near Toledo, Ohio, Dolomite-Insoluble Residue Relationships in the Ten Mile Creek ... 828
Dolomite of Salt Flat, West Texas, Occurrence and Origin of Quaternary ... 263
Dolomite: Their Origin and Environmental Interpretation, Crystal Molds in ... 221
Dolomitic Marble Bodies of the Middle Devonian of Western Utah, Selective Dolomitization and the Origin of White ... 602
Dolomitization and the Origin of White Dolomitic Marble Bodies in the Middle Devonian of Western Utah, Selective ... 602
Dolomitization in Mississippian Carbonate Banks in Montana, Limestone Diagenesis and ... 764
Dolomitized Flank Beds of Niagaran (Silurian) Reef, Lapel, Indiana, Turbidites in ... 563
Dolostone Patterns ni the Utah-Nevada Middle Cambrian, Primary ... 548
Donath, F. A., Fruth, L. S., Jr., and Orme, G. R., article by ... 747
Early Paleozoic of Central Bohemia, Geochemical Evolution of Clayey and Carbonate Sediments of ... 230
Earthquake on Some Shallow-Water Sediments in Prince William Sound, Southeast Alaska, Effects of the 1964 Alaskan ... 992
Eastern England, Regional and Local Components in the Areal Distribution of Surface Sand Facies in the Breckland ... 209
Ecologic Factors in Buttonwood Sound, Florida Bay, Relationship of Sediment-Size Distribution to ... 66
Edge, Oolites on the Georgia Continental Shelf ... 462
Effect of Shape Upon the Settling Velocity of Regular Convex Geometric Particles ... 370
Effects in Carbonate Sediments, Experimental Compaction ... 747
Effects of the 1964 Alaskan Earthquake on Some Shallow-Water Sediments in Prince William Sound, Alaska ... 992
Effects on Fall Velocity, Particle Roundness and Surface Texture ... 255
Emery, K. O., and Niino, Hiroshi, article by ... 152
Enbysk, B. J., and Linger, F. I., note by ... 839
England, Shale Grit and Grindslow Shales: Transition From Turbidite to Shallow Water Sediments in the Upper Carboniferous of Northern ... 90
England, Silica Diagenesis in Upper Jurassic Limestones of Southern ... 1036
Elutriation and Analysis of the Fine Particles in Sandstone, Separation by Ultrasonic ... 1152
England, A Detailed Study of Microfacies in the Mid-Visean (S_2–D_1) Limestones near Hartington, Derbyshire ... 864
England, Imbrication, Paleocurrents and other Sedimentary Features in the Lower New Red Sandstone, Devonshire ... 940
England, The Petrology of Middle Devonian Limestones in South Devon ... 176
Environmental Interpretation, Crystal Molds in Dolomite: Their Origin and ... 221
Environments from Grain-Size Distributions, The Use of Factor Analysis in Determining Depositional ... 115
Eocene Neritic Bar Sand, Opal, Zeolites, and Clays in an ... 248
(Eocene), Raven Ridge Area, Uinta Basin, Utah, Oriented, Linear-Shrinkage Cracks in Green River Formation ... 1050

Equilibrium Beaches North of San Francisco, Sand Movement along ... 341
Equipment, X-ray Radiography with X-ray Diffraction ... 620
Equivalents in Sediments of the Mediterranean Continental Shelf of Israel, The Distribution of Heavy Minerals and their Hydraulic ... 162
Esmeralda County, Nevada, Zeolitic Diagenesis of Mio-Pliocene Rocks of the Silver Peak Range ... 1007
Estimates of Grain Abundance, Reliability of Visual ... 81
Estimating Grain Size, Precision of Linear and Areal Measurements in ... 397
Evaluation of Sampling and Analytical Methods for The Regional Geochemical Study of Subsurface Carbonate Formation ... 755
Evolution of Clayey and Carbonate Sediments of Early Paleozoic of Central Bohemia, Geochemical ... 230
Expected Shapes of Blocks and Grains, The ... 626
Experimental Compaction Effects in Carbonate Sediments ... 747
Experimental Study of Sandstone Cementation ... 977
Experiments, Backset Bedding Developed in Shooting Flow in Laboratory ... 821

Fabrics of Siltstones in Red Peak Member (Triassic) Central Wyoming, Non-Opaque and Opaque Grain ... 506
Facies in the Breckland, Eastern England, Regional and Local Components in the Areal Distribution of Surface Sand ... 209
Factors in Buttonwood Sound, Florida Bay, Relationship of Sediment-Size Distribution to Ecologic ... 66
Factors Influencing the Early Stages of the Compaction of Clays and Sands—a Review ... 1085
Factor Analysis in Determining Depositional Environments from Grain-Size Distributions, The Use of ... 115
Fall Velocity, Particle Roundness and Surface Texture Effects on ... 255
Fault Plane Features: An Alternate Explanation, by R. E. Riecker, A Discussion of the Paper: ... 1163
Ferm, J. C., and Connor, C. W., article by ... 397
Ferm, J. C., and Folk, R. L., article by ... 850
Ferruginized Surface Deposits from Natal and Zululand, South Africa ... 193
Fine Grained Sandstones, Improved Methods of Heavy Mineral Separation and Counting Suitable for ... 629
Fine Particles in Sandstone, Separation by Ultrasonic Elutriation and Analysis of the ... 1152
Fisher, R. V., article by ... 706
Flank Beds of Niagaran (Silurian) Reef, Lapel, Indiana, Turbidites in Dolomitized ... 563
Florida Bay, Relationship of Sediment-Size Distribution to Ecologic Factors in Buttonwood Sound ... 66
Flow in Laboratory Experiments, Backset Bedding Developed in Shooting ... 821
Flow Visualization Using Plaster of Paris ... 806
Flows, Thixotropy and the Mobilization of Clays in Slumps and Turbidity ... 270
Fluorescent Sand Tracers ... 468
Flysch Sandstones Shown by Groove Molds in intra-Bed Surfaces, Peeblesshire, Scotland, Composite Nature of Silurian ... 237
Folk, R. L., and Ferm, J. C., article by ... 850
Formation, Evaluation of Sampling and Analytical Methods for the Regional Geochemical Study of a Subsurface Carbonate ... 755
Formation of Loess Deposits, The Properties of Glacial Loess and the ... 669
Formation (Triassic), West-Central Wyoming, Petrography of Red Peak Member, Chugwater ... 904
Formation's Mahogany Zone, Ankerite in the Green River ... 486
Four Moment Measures Perpendicular to a Shore Line South Haven, Michigan, A Profile of the ... 1126
Fox, W. T., Ladd, J. W., and Martin, M. K., article by ... 1126
Frankel, J. J. and Bayliss, P. article by ... 193
Frequency and Number Frequency Data in Size Distribution Studies of Clastic Sediments" by Basanta K. Sahu, Discussion of Article "Transformation of Weight ... 273
Frequency Data in Size Distribution Studies of Clastic Sediments: by Basanta K. Sahu, Discussion of Article "Transformation of Weight Frequency and Number ... 273
Friable Sediments, Preparation of Thin-Sections of Unconsolidated or ... 254
Friedman, G. M., note by ... 263
Friedman, G. M., and Gevirtz J. L., article by ... 143
Friedman, G. M., Lahoud J. A. and Miller, D. S. article by ... 541
Frost, S. H., and Carozzi, A. V., article by ... 563
Fruth, L. S., Jr., Orme, G. R., and Donhath, F. A., article by ... 747
Furrows in a Beach Salcrete at Rockaway Point New York, Heavy Mineral Concentration and Sastrugi-Like Deflation ... 837

Garrels, R. M., and Mackenzie, F. T., article by ... 1075
Garrison, L. E., and McMaster, R. L., article by ... 1131
Genesis as revealed by Staining, Carbonate Identification and ... 491
Genesis of Recent Lime Mud in Southern British Honduras ... 428
Geochemical Evolution of Clayey and Carbonate Sediments in Early Paleozoic of Central Bohemia ... 230
Geochemical Study of a Subsurface Carbonate Formation, Evaluation of Sampling and Analytical Methods for the Regional ... 755
Geometric Particles, Effect of Shape Upon the Settling Velocity of Regular Convex ... 370
Georgia Continental Shelf Edge, Oolites on the ... 462
Geosynclinal Rocks, Girvan, Scotland, Sedimentary History of Upper Ordovician ... 677
Gevirtz, J. L., and Friedman, G. M., article by ... 143
Ginsburg, R. N., Bernard, H. A., Moody R. A., and Daigle, E. E., article by ... 1118
Gipson, Mack, Jr., article by ... 888
Gipson, Mack, Jr. article by ... 1143
Glacial Loess and the Formation of Loess Deposits, The Properties of ... 669
Glacial Till, East-Central North Dakota—A Preliminary Investigation, Color Variations ... 75
Glaciers, Queen Maude Range, Antarctica, Petrology of Some Beacon Rocks Between the Axel Heiberg and Shackelton ... 794
Gondwana Sedimentation in Saharjuri Coalfield, Bihar, India, Lower ... 960
Grain Abundance, Reliability of Visual Estimates of ... 81
Grain Fabrics of Siltstones in Red Peak Member

(Triassic), Central Wyoming, Non-Opaque and Opaque ... 506
Grain Mount, Grain Size Measurement in Thin Section and in ... 841
Grain-Size Distributions, The Use of Factor Analysis in Determining Depositional Environments from ... 115
Grain Size Measurement in Thin Section and in Grain Mount ... 841
Grain Size, Precision of Linear and Areal Measurements in Estimating ... 397
Grained Sandstones, Improved Methods of Heavy Mineral Separation and Counting Suitable for Fine- ... 629
Grains, The Expected Shapes of Blocks and ... 622
Green River Formation (Eocene), Raven Ridge Area, Uinta Basin, Utah, Oriented, Linear-Shrinkage Cracks in ... 1050
Green River Formation's Mahogany Zone, Ankerite in the ... 486
Grindslow Shales: Transition from Turbidite to Shallow Water Sediments in the Upper Carboniferous of Northern England ... 90
Grit and Grindslow Shales: Transition from Turbidite to Shallow Water Sediments in the Upper Carboniferous of Northern England, Shale ... 90
Groove Molds on Intra-Bed Surfaces, Peeblesshire Scotland, Composite Nature of Silurian Flysch Sandstones Shown by ... 237
Gulf of Mexico and Adjacent Water Bodies, Texas-Louisiana, Sediments of Sabine Lake, the ... 608

Haggett, P., Chorley, R. J., Stoddardt, D. R., and Slaymaker, H. O., article by ... 209
Hanson, L. G., McManus, D. A., and Baker, J. V., Notes by ... 632
Hartington, Derbyshire, England, A Detailed Study of Microfacies in the Mid-Visean (S_2–D_1) Limestones near ... 864
Hatfield, C. B., and Rohrbacker, T. J., note by ... 828
Hays, J. B., and Bromberger, S. H., article by ... 358
Hays, J. B., and Mossler, J. H., article by ... 414
Heald, M. T., and Renton, J. J. article by ... 977
Heavy Mineral Concentration and Sastrugi-Like Deflation Furrows in a Beach Salcrete at Rockaway Point, New York ... 837
Heavy Mineral Residue, New Technique for Preparing Polished Thin Sections of ... 268
Heavy Mineral Separation and Counting Suitable for Fine Grained Sandstones, Improved Methods of ... 629
Heavy Mineral Suites, A Critique of Methods for Comparing ... 57
Heavy Minerals and their Hydraulic Equivalents in Sediments of the Mediterranean Continental Shelf of Israel, The Distribution of ... 162
(Helderberg) Rocks of the Central Hudson Valley New York, A Mineralogical Study of Some Lower Devonian ... 775
Henry, V. J., Jr., and Howard, J. D., note by ... 818
High and Low Sinuosity Stream Deposits, with Examples from the Devonian of Spitsbergen 1102
Hülsemann, Jobst, notes by ... 622
History of Upper Ordovician Geosynclinal Rocks, Girvan, Scotland, Sedimentary ... 677
Honduras, Genesis of Recent Lime Mud in Southern British ... 428
Hoskin, C. M., article by ... 1058
Howard, J. D., and Henry, V. J., Jr., note by ... 818
Hubert, J. F., article by ... 677
Hubert, J. F., Scott, Kevin M. Walton, E. K. note by ... 237
Hudson Valley, New York, A Mineralogical Study of Some Lower Devonian (Helderberg) Rocks of the Central ... 775
Hydraulic Equivalents in Sediments of the Mediterranean Continental Shelf of Israel, The Distribution of Heavy Minerals and their ... 162
Hydraulic Parameters of a Paleo-Flow Regime, Some Principles and Techniques used in Reconstructing the ... 5
Hydraulic Shape of Sand Particles" By Louis I. Briggs, David S. McCullock and Frank Moser, Discussion of Article "The ... 271

Identification and Genesis as Revealed by Staining Carbonate ... 491
Imbrication of Pebbles with Respect to Cross-Stratification Studies on Orientation and ... 362
Imbrication, Paleocurrents and other Sedimentary Features in the Lower New Red Sandstone, Devonshire, England ... 940
Implication on Marine Lithification, Deep-sea Carbonate Sediments of the Red Sea and their ... 143
Impregnating Cores of Unconsolidated Sediments, The Shell Method of ... 1118
Improved Methods of Heavy Mineral Separation and Counting Suitable for Fine Grained Sandstones ... 629
India, Lower Gondwana Sedimentation in Saharjuri Coalfield, Bihar, ... 960
Indiana, Algal Cap for a Niagaran (Silurian) Carbonate Mud Mound of ... 455
Indiana, Turbidites in Dolomitized Flank Beds of Niagaran (Silurian) Reef, Lapel, ... 563
Indicators, Concentric Marks: Current ... 1156
Infrared Radiation: A Simple Method for Studying Sedimentary Structures, Transmitted ... 1144
Interpretation, Crystal Molds in Dolomite: Their Origin and Environmental ... 221
Intra-Bed Surfaces, Peeblesshire, Scotland, Composite Nature of Silurian Flysch Sandstones shown by Groove Molds on ... 237
Investigation, Color Variations with Glacial Till East-Central North Dakota—A Preliminary ... 75
Illawarra Coal Measure Sediments of the Sydney Basin, New South Wales, A Comparative Study of the Newcastle and ... 1016
Iowa, Ordovician Potassium Bentonites of ... 414
Iowa, Petrology of the Carbonate Members of the Swope and Dennis Formations (Pennsylvanian), Missouri and ... 576
Israel, The Distribution of Heavy Minerals and the Hydraulic Equivalents in Sediments of the Mediterranean Continental Shelf of ... 162

Janke, N. C., article by ... 370
John Day Volcanic Siltstone with Loess and Volcanic Ash, Textural Comparison of ... 706
Jopling, A. V., article by ... 880
Jopling, A. V., and Richardson, E. V., note by ... 821

Kane, H. E., article by ... 608
Kelling, Gilbert and Williams, B. P. J., article by ... 927
Kelly, T. E. and Baker, C. H., Jr., article by ... 75
Kempsey, New South Wales, Carboniferous Subaqueous Mass-Movement in the Manning-Macleay Basin, ... 719

Kepper, J. C., Jr., article by ... 548
Kerr, P. F., and Langer, A. M. article by ... 377
Klovan, J. E., article by ... 115
Kravitz, J. H., note by ... 811
Krynine, A Portrait of Paul D. ... 850
Kukal, Zdenek, note by ... 230

Laboratory Experiments, Backset Bedding Developed in Shooting Flow in ... 820
Ladd, J. W., Fox, W. T., and Martin, M. K., article by ... 1126
Lagoon, Mexico, Coral Pinnacle Sedimentation, Alacran Reef ... 1058
Lahoud, J. A., Miller D. S. and Friedman, G. M., article by ... 541
Lake Managua, Western Nicaragua, Bottom Sediments of Lake Nicaragua and ... 522
Lake Nicaragua and Lake Managua, Western Nicaragua, Bottom Sediments of ... 522
Laminae Deposited by Current Action in Clastic Rocks, Some Deductions on the Temporal Significance of ... 880
Laminae, Truncated Wave-Ripple ... 825
Laming, D. J. C., article by ... 940
Landslide in Sarawak, Malaysia, and its Significance in Relation to Washouts in Coal Seams, A Peat ... 244
Langer, A. M. and Kerr, P. F., article by ... 377
Lapel, Indiana, Turbidites in Dolomitized Flank Beds of Niagaran (Silurian) Reef, ... 563
Lateral Migration of Shallow Streams, Planar Cross-Stratification Formed by the ... 742
Lewis, T. L., Sutton, R. G., note by ... 225
Lime Mud in Southern British Honduras, Genesis of Recent ... 428
Limestone Diagenesis and Dolomitization in Mississippian Carbonate Banks in Montana ... 764
Limestone in New York State, Collophane Associated with the Unconformity at the Base of the Devonian Onondaga ... 260
Limestone Shales (Basal Carboniferous) of South Pembrokeshire, Wales, Deformation Structures of Sedimentary Origin in the Lower ... 927
Limestones in South Devon, England, The Petrology of Middle Devonian ... 176
Limestones near Hartington, Derbyshire, England, A Detailed Study of Microfacies in the Mid-Visean (S_2–D_1) ... 864
Limestones of Southern England, Silica Diagenesis in Upper Jurassic ... 1036
Linear and Areal Measurements in Estimating Grain Size, Precision of ... 397
Linear-Shrinkage Cracks in Green River Formation (Eocene) Raven Ridge Area, Uinta Basin, Utah, Oriented ... 1050
Lindsay, J. F., article by ... 719
Linger, F. I., and Enbysk, B. J., note by ... 839
Lithification, Deep-sea Carbonate Sediments of the Red Sea and their Implications on Marine ... 143
Local Components in the Areal Distribution of Surface Sand Facies in the Breckland, Eastern England, Regional and ... 209
Loess and the Formation of Loess Deposits, The Properties of Glacial ... 669
Loess and Volcanic Ash, Textural Comparison of John Day Volcanic Siltstone with ... 706
Long Island Sound (New York): Physical and Chemical Properties Reviewed, Sediments from ... 234
Louhgnan, F. C., article by ... 1016
Louisiana, Sediments of Sabine Lake, The Gulf of Mexico and Adjacent Water Bodies, Texas ... 608
Lower Devonian (Helderberg) Rocks of the Central Hudson Valley, New York, A Mineralogical Study of Some ... 775
Lower Gondwana Sedimentation in Saharjuri Coalfield, Bihar, India ... 960
Lower Limestone Shales (Basal Carboniferous) of South Pembrokeshire, Wales, Deformation Structures of Sedimentary Origin in the ... 927
Lower New Red Sandstone, Devonshire, England, Imbrication, Paleocurrents and other Sedimentary Features in the ... 940
Lynts, G. W., article by ... 66

Mackenzie, F. T., and Garrels, R. M., article by ... 1075
Mahogany Zone, Ankerite in the Green River Formation's ... 486
Malaysia, and its Significance in Relation to Washouts in Coal Seams, a Peat Landslide in Sarawak, ... 244
Manning-Macleay Basin, Kempsey, New South Wales, Carboniferous Subaqueous Mass-Movement in the ... 719
Marble Bodies in the Middle Devonian of Western Utah, Selective Dolomitization and the Origin of White Dolomitic ... 602
Marine Lithification, Deep-sea Carbonate Sediments of the Red Sea and their Implications on ... 143
Marks: Current Indicators, Concentric ... 1156
Martin, M. K., Fox, W. T. and Ladd, J. W., article by ... 1126
Mass-Movement in the Manning-Macleay Basin, Kempsey, New South Wales, Carboniferous Subaqueous ... 719
Matthews, R. K., article by ... 428
McCrone, A. W., article by ... 234
McCrone, A. W., note by ... 270
McCulloch and Frank Moser, Discussion of Article "The Hydraulic Shape of Sand Particles" by Louis I. Briggs, David S. ... 271
McManus, D. A., Hanson L. G. and Baker, J. V., Notes by ... 632
McMaster, R. L., and Garrison, L. E., article by ... 1131
Meade, R. H., article by ... 1085
Means of Circular Data, Arithmetic ... 50
Measure Sediments of the Sydney Basin, New South Wales, A Comparative Study of the Newcastle and Illawarra Coal ... 1016
Measurements in Estimating Grain Size, Precision of Linear and Areal ... 397
Measures Perpendicular to a Shore Line, South Haven Michigan, A Profile of the Four Moment ... 1126
Mediterranean Continental Shelf of Israel, The Distribution of Heavy Minerals and their Hydraulic Equivalents in Sediments of the ... 162
Member (Triassic), Central Wyoming, Non-Opaque and Opaque Grain Fabrics of Siltstones in Red Peak ... 506
Mesolella, K. J., note by ... 260
Method for Studying Sedimentary Structures, Transmitted Infrared Radiation: A Simple ... 1144
Methods for Comparing Heavy Mineral Suites, A Critique of ... 57
Methods, of Heavy Mineral Separation and Counting Suitable for Fine Grained Sandstones, Improved ... 629

Mexico, Coral Pinnacle Sedimentation, Alacran Reef Lagoon ... 1058
Michigan, A Profile of the Four Moment Measures Perpendicular to a Shore Line, South Haven ... 1126
Microfacies in the Mid-Visean (S_2–D_1) Limestones near Hartington, Derbyshire, England, A Detailed Study of ... 864
Middle Cambrian, Primary Dolostone Patterns in the Utah-Nevada ... 548
Middle Devonian Limestones in South Devon, England, The Petrology of ... 176
Middle Devonian of Western Utah, Selective Dolomitization and the Origin of White Dolomitic Marble Bodies in the ... 602
Middleton, G. V., article by ... 202
Mid-Visean (S_2–D_1) Limestones near Hartington, Derbyshire, England, A Detailed Study of Microfacies in the ... 864
Migration of Shallow Streams, Planar Cross-Stratification Formed by the Lateral ... 742
Miller, D. S., Lahoud, J. A., and Friedman, G. M., article by ... 541
Mineral Concentration and Sastrugi-Like Deflation Furrows in a Beach Salcrete at Rockaway Point, New York, Heavy ... 837
Mineral Content, Mojave Playa Crusts: Physical Properties and ... 377
Mineral Orientation in Pennsylvanian Shales, A Study of the Relations of Depth, Porosity and Clay ... 888
Mineral Residue, New Technique for Preparing Polished Thin Sections of Heavy ... 268
Mineral Separation and Counting Suitable for Fine Grained Sandstones, Improved Methods of Heavy ... 629
Mineral Suites, A Critique of Methods for Comparing Heavy ... 57
Mineralogical Study of Some Lower Devonian (Helderberg) Rocks of the Central Hudson Valley New York, A ... 775
Mineralogy and Origin of Southern New England Shelf Sediments, ... 1131
Mineralogy of the Pampa Plains, Argentina, Soil Clay ... 1026
Minerals and their Hydraulic Equivalents in Sediments of the Mediterranean Continental Shelf of Israel, The Distribution of Heavy ... 162
Minerals, Preparation of Oriented Slides for X-ray Analysis of Clay ... 1143
Minerals, Preparation of Oriented Slides for X-ray Analysis of Clay ... 1143
Minnesota, Quiet Water Oolites from the Ordovician of ... 813
Mississippian Carbonate Banks in Montana, Limestone Diagenesis and Dolomitization in ... 764
Missouri and Iowa, Petrology of the Carbonate Members of the Swope and Dennis Formations (Pennsylvanian), ... 576
Miocene, Orange County, California, Deep Submarine Channel in Upper ... 700
Mio-Pliocene Rocks of the Silver Peak Range, Esmeralda County, Nevada, Zeolitic Diagenesis of ... 1007
Mixed Coarse-Fine Sediments, Terminology of ... 831
Mixtures by X-ray Diffraction, Quantitative Determination of Calcite-Dolomite-Apatite ... 358
Mobilization of Clays in Slumps and Turbidity Flows, Thixotropy and the ... 270
Models of Turbidity Currents and the Criterion for Auto-Suspension, Small-Scale ... 202
Modified Woods Hole Rapid Sediment Analyzer, A ... 403
Moiola, R. J., and Wermund, E. G., note by ... 248
Moist, Saturated or Suspended Sediment, A Sample Splitter for ... 632
Mojave Playa Crusts: Physical Properties and Mineral Content ... 377
Molds in Dolomite: Their Origin and Environmental Interpretation, Crystal ... 221
Molds on Intra-Bed Surfaces, Peeblesshire, Scotland, Composite Nature of Silurian Flysch Sandstones Shown by Groove ... 237
Molluscan Shells, Pyritization in Some ... 1149
Molluscan Shells, Relationship Between Depositional Environment and Uranium Concentrations of ... 541
Moment Measures Perpendicular to a Shore Line, South Haven, Michigan, A Profile of the Four ... 1126
Montana, Limestone Diagenesis and Dolomitization in Mississippian Carbonate Banks in 764
Morphometric Data of Some Recent Pebble Associations and their Application to Ancient Deposits ... 126
Moser, Discussion of Article "The Hydraulic Shape of Sand Particles" by Louis I. Briggs, David S., McCulloch and Frank ... 271
Mossler, J. H., and Hayes, J. B., article by ... 414
Moody, R. A., Ginsburg, R. N., Bernard, H. A., and Daigle, E. E., article by ... 1118
Moody-Stuart, M., article by ... 1102
Mound of Indiana, Algal Cap for a Niagaran (Silurian) Carbonate Mud ... 455
Movement along Equilibrium Beaches North of San Francisco ... 341
Mud in Southern British Honduras, Genesis of Recent Lime ... 428
Mud Mound of Indiana, Algal Cap for a Niagaran (Silurian) Carbonate ... 455
Mysid Statoliths in Shelf Sediments off Northwest North America ... 839

Natal and Zululand, South Africa, Ferruginized Surface Deposits from ... 193
Nature of Silurian Flysch Sandstones Shown by Groove Molds on Intra-Bed Surfaces, Peeblesshire Scotland, Composite ... 237
Nelson, R. B., article by ... 602
Neritic Bar Sand, Opal, Zeolites, and Clays in an Eocene ... 248
Nevada, Zeolitic Diagenesis of Mio-Pliocene Rocks of the Silver Peak Range, Esmeralda County ... 1007
Newcastle and Illawarra Coal Measure Sediments of the Sidney Basin, New South Wales, A Comparative Study of the ... 1016
New England Shelf Sediments, Mineralogy and Origin of Southern ... 1131
New Red Sandstone, Devonshire, England, Imbrication, Paleocurrents and other Sedimentary Features in the Lower ... 940
New South Wales, A Comparative Study of the Newcastle Illawarra Coal Measure Sediments of the Sydney Basin ... 1016
New South Wales, Carboniferous Subaqueous Mass-Movement in the Manning-Macleay Basin, Kempsey ... 719
New Technique for Preparing Polished Thin Sections of Heavy Mineral Residue ... 268
New York, A Mineralogical Study of Some Lower Devonian (Helderberg) Rocks of the Central Hudson Valley, ... 775

New York, Heavy Mineral Concentration and Sastrugi-Like Deflation Furrows in a Beach Salcrete at Rockaway Point, ... 837
(New York): Physical and Chemical Properties Reviewed, Sediments from Long Island Sound ... 234
New York State, Collophane Associated with the Unconformity at the Base of the Devonian Onondaga Limestone in ... 260
Nevada Middle Cambrian, Primary Dolostone Patterns in the Utah- ... 548
Niagaran (Silurian) Reef, Lapel, Indiana, Turbidites in Dolomitized Flank Beds of ... 563
Niagaran (Silurian) Carbonate Mud Mound of Indiana, Algal Cap for a ... 455
Nicaragua, Bottom Sediments of Lake Nicaragua and Lake Managua, Western ... 522
Niino, Hiroshi and Emery, K. O., article by ... 152
Niyogi, Dipankar, article by ... 960
Non-Opaque and Opaque Grain Fabrics of Siltstones in Red Peak Member (Triassic), Central Wyoming ... 506
North America, Mysid Statoliths in Shelf Sediments off Northwest ... 839
North Dakota—A Preliminary Investigation, Color Variations within Glacial Till, East-Central ... 75
Northeastern Asia, Continental Shelf Sediments off ... 152
Northwest North America, Mysid Statoliths in Shelf Sediments off ... 839
Number Frequency Data in Size Distribution Studies of Clastic Sediments" by Basantaki Sahu, Discussion of Article "Transformation of Weight Frequency and ... 273

Oaks, R. Q., Jr., and Shier, D. E., note by ... 241
Occurrence and Origin of Quaternary Dolomite of Salt Flat, West Texas ... 263
Ocean and Early Diagenesis, Silica-Bicarbonate Balance in the ... 1075
Ohio, Dolomite-Insoluble Residue Relationships in the Ten Mile Creek Dolomite (Middle Devonian) near Toledo, ... 828
Onondaga Limestone in New York State, Collophane Associated with the Unconformity at the Base of the Devonian ... 260
On the Routine Analysis of Carbonates in Unconsolidated Sediments ... 622
Oolites from the Ordovician of Minnesota, Quiet Water ... 813
Oolites on the Georgia Continental Shelf Edge ... 462
Opal, Zeolites, and Clays in an Eocene Neritic Bar Sand ... 248
Opaque Grain Fabrics of Siltstones in Red Peak Member (Triassic), Central Wyoming, Non-Opaque and ... 506
Orange County, California, Deep Submarine Channel In Upper Miocene, ... 700
Ordovician Geosynclinal Rocks, Girvan, Scotland Sedimentary History of Upper ... 677
Ordovician of Minnesota, Quiet Water Oolites from the ... 813
Ordovician Potassium Bentonites of Iowa ... 414
Orientation and Imbrication of Pebbles with Respect to Cross-Stratification, Studies on ... 362
Orientation in Pennsylvanian Shales, A Study of The Relations of Depth, Porosity and Clay Mineral ... 888
Oriented, Linear-Shrinkage Cracks in Green River Formation (Eocene), Raven Ridge Area, Uinta Basin, Utah ... 1050
Oriented Slides for X-ray Analysis of Clay Minerals, Preparation of ... 1143
Origin and Environmental Interpretation, Crystal Molds in Dolomite: Their ... 221
Origin of Quaternary Dolomite of Salt Flat, West Texas, Occurrence and ... 263
Origin of Southern New England Shelf Sediments, Mineralogy and ... 1131
Origin of White Dolomitic Marble Bodies in the Middle Devonian of Western Utah, Selective Dolomitization and the ... 602
Orme, G. R., Fruth, L. S., and Donath, F. A., article by ... 747

Paleocurrents and other Sedimentary Features in Lower New Red Sandstone, Devonshire, England, Imbrication ... 940
Paleo-Flow Regime, Some Principles and Techniques used in Reconstructing the Hydraulic Parameters of a ... 5
Paleozoic of Central Bohemia, Geochemical Evolution of Clayey and Carbonate Sediments of Early ... 230
Pampa Plains, Argentina, Soil Clay Mineralogy of the ... 1026
Parameters of a Paleo-Flow Regime, Some Principles and Techniques used in Reconstructing the Hydraulic ... 5
Paris, Flow Visualization Using Plaster of ... 806
Particle Roundness and Surface Texture Effects on Fall Velocity ... 255
Particles" by Louis I. Briggs, David S. McCulloch and Frank Moser, Discussion of Article "The Hydraulic Shape of Sand ... 271
Particles, Effect of Shape Upon the Settling Velocity of Regular Convex Geometric ... 370
Patterns in the Utah-Nevada Middle Cambrian, Primary Dolostone ... 548
Patterns of Cross-Laminae and Convulotions in a Single Bed ... 225
Payton, C. E., article by ... 576
Peat Landslide in Sarawak, Malaysia, and its Significance in Relation to Washouts in Coal Seams, A ... 244
Pebble Associations and their Application to Ancient Deposits, Morphometric Data of Some Recent ... 126
Pebbles with Respect to Cross-Stratification, Studies on Orientation and ... 362
Peeblesshire, Scotland, Composite Nature of Silurian Flysch Sandstones Shown by Grooves Molds on Intra-Bed Surfaces ... 237
Pembrokeshire, Wales, Deformation Structures of Sedimentary Origin in the Lower Limestone Shales (Basal Carboniferous) of South ... 927
(Pennsylvanian), Missouri and Iowa, Petrology of the Carbonate Members of the Swope and Dennis Formations ... 576
Pennsylvanian Shales, A Study of the Relations of Depth, Porosity and Clay Mineral Orientation in ... 888
Petrogenetic Classification of Carbonate Rocks 317
Petrography of Red Peak Member, Chugwater Formation (Triassic), West-Central Wyoming ... 904
Petrology of Middle Devonian Limestones in South Devon, England, The ... 176
Petrology of the Carbonate Members of the Swope and Dennis Formations (Pennsylvanian), Missouri and Iowa ... 576
Petrology of Some Beacon Rocks Between the

Axel Heiberg and Shackelton Glaciers, Queen Maude Range, Antarctica 794
Pevear, D. R., Pilkey, O. H. and Schnitker, Detmar, article by 462
Physical and Chemical Properties Reviewed, Sediments from Long Island Sound (New York):, ... 234
Physical Properties and Mineral Content, Mojave Playa Crusts: 377
Picard, M. D., article by 904
Picard, M. D., article by 1050
Picard, M. D. and Beckmann, D. D., article by 506
Pilkey, O. H., Schnitker, Detmar, and Pevear, D. R., article by 462
Pinnacle Sedimentation, Alacran Reef Lagoon, Mexico, Coral 1058
Planar Cross-Stratification Formed by the Lateral Migration of Shallow Streams 742
Plane Features: An Alternate Explanation, by R. Riecker, A Discussion of the Paper: Fault 1163
Plaster of Paris, Flow Visualization Using 806
Plastic-Tube Coring Technique for Unconsolidated Wet Sand 241
Playa Crusts: Physical Properties and Mineral Content, Mojave 377
Polished Thin Sections of Heavy Mineral Residue, New Technique for Preparing 268
Pomerancblum, Malvina, article by 162
Porosity, and Clay Mineral Orientation in Pennsylvanian Shales, A Study of the Relations of Depth, ... 888
Portrait of Paul D. Krynine, A 850
Potassium Bentonites of Iowa, Ordovician 414
Precision of Linear and Areal Measurements in Estimating Grain Size 397
Preliminary Investigation, Color Variations within Glacial Till, East-Central North Dakota—A 75
Preparing Polished Thin Sections of Heavy Mineral Residue, New Technique for 268
Preparation of Oriented Slides for X-ray Analysis of Clay Minerals 1143
Preparation of Thin-Sections of Unconsolidated or Friable Sediments 254
Primary Dolostone Patterns in the Utah-Nevada Middle Cambrian 548
Prince William Sound, Southeast Alaska, Effects of the 1964 Alaskan Earthquake on Some Shallow-Water Sediments 992
Principles and Techniques used in Reconstructing the Hydraulic Parameters of a Paleo-Flow Regime, Some 5
Processes of Conversion of Aragonite to Calcite with Examples from the Cretaceous of Texas 733
Profile of the Four Moment Measures Perpendicular to a Shore Line, South Haven, Michigan, A 1126
Properties and Mineral Content, Mojave Playa Crusts: Physical 377
Properties of Glacial Loess and the Formation of Loess Deposits, the 669
Properties Reviewed, Sediments from Long Island Sound (New York): Physical and Chemical 234
Pyritization in Some Molluscan Shells 1149

Quantitative Determination of Calcite-Dolomite-Apatite Mixtures by X-ray Diffraction 358
Quaternary Dolomite of Salt Flat, West Texas, Occurrence and Origin of 263
Queen Maude Range, Antarctica, Petrology of Some Beacon Rocks Between the Axel Heiberg and Shackelton Glaciers 794
Quiet Water Oolites from the Ordovician of Minnesota 813

Radiation: A Simple Method for Studying Sedimentary Structures, Transmitted Infrared. 1144
Radiography with X-ray Diffraction Equipment, X-ray 620
Ramesam, V., note by 629
Range, Esmeralda County, Nevada, Zeolitic Diagenesis of Mio-Pliocene Rocks of the Silver Peak 1007
Rapid Sediment Analyzer, A Modified Woods Hole 403
Raven Ridge Area, Uinta Basin, Utah, Oriented, Linear-Shrinkage Cracks in Green River Formation (Eocene) 1050
Recent Lime Mud in Southern British Honduras, Genesis of 428
Recent Pebble Associations and their Application to Ancient Deposits, Morphometric Data of Some 126
Reconstructing the Hydraulic Parameters of a Paleo-Flow Regime, Some Principles and Techniques used in 5
Red Peak Member, Chugwater Formation (Triassic), West-Central Wyoming, Petrography of 904
Red Peak Member (Triassic), Central Wyoming, Non-Opaque and Opaque Grain Fabrics of Siltstones in 506
Red Sea and Their Implications on Marine Lithification, Deep-sea Carbonate Sediments of the 143
Reef Lagoon, Mexico, Coral Pinnacle Sedimentation, Alacran 1058
Reef, Lapel, Indiana, Turbidites in Dolomitized Flank Beds of Niagaran (Silurian) 563
Regime, Some Principles and Techniques used In Reconstructing the Hydraulic Parameters of a Paleo-Flow 5
Regional and Local Components in the Areal Distribution of Surface Sand Facies in the Breckland, Eastern England 209
Regional Geochemical Study of a Subsurface Carbonate Formation, Evaluation of Sampling and Analytical Methods for the 755
Regional Patterns of Cross-Laminae and Convolutions in a Single Bed 225
Regular Convex Geometric Particles, Effect of Shape Upon the Settling Velocity of 370
Relation of Sediment-Size Distribution to Ecologic Factors in Buttonwood Sound, Florida Bay 66
Relation to Washouts in Coal Seams, A Peat Landslide in Sarawak, Malaysia, and its Significance in 244
Relations of Depth, Porosity and Clay Mineral Orientation in Pennsylvanian Shales, A Study of the 888
Relationship Between Depositional Environment and Uranium Concentrations of Molluscan Shells 541
Relationships in the Ten Mile Creek Dolomite (Middle Devonian) near Toldeo, Ohio, Dolomite-Insoluble Residue 828
Reliability of Visual Estimates of Grain Abundance 81
Renton, J. J., and Heald, M. T., article by 977
Reply to Stringham's Discussion 272
Residue, New Technique for Preparing Polished Thin Sections of Heavy Mineral 268

Residue Relationships in the Ten Mile Creek Dolomite (Middle Devonian) near Toldeo, Ohio, Dolomite-Insoluble 828
Revealed by Staining, Carbonate Identification and Genesis as 491
Review, Factors Influencing the Early Stages of the Compaction of Clays and Sand—a 1085
Reviewed, Sediments from Long Island Sound (New York): Physical and Chemical Properties 234
Reviews 636
Rhoads, D. C. and Stanley, D. J., article by 1144
Richardson, E. V., and Jopling, A. V., note by 820
Riecker, R. E., A Discussion of the Paper: Fault Plane Features: An Alternate Explanation, By 1163
River Formation's Mahogany Zone, Ankerite in the Green 486
Robb, W. A., and Smith, J. W., Article by 486
Robinson, P. T., Article by 1007
Rockaway Point, New York Heavy Mineral Concentration and Sastrugi-Like Deflation Furrows in a Beach Salcrete at 836
Rocks, Girvan, Scotland, Sedimentary History of Upper Ordovician Geosynclinal 677
Rocks of the Silver Peak, Range, Esmeralda County, Nevada, Zeolitic Diagenesis of Mio-Pliocene 1007
Rocks, Petrogenetic Classification of Carbonate 317
Rocks, Some Deductions on the Temporal Significance of Laminae Deposited by Current Action in Clastic 880
Rod, Emile, Discussion by 1163
Rohrbacker, T. J., and Hatfiled, C. B., note by 828
Rosfelder, A. M., article by 973
Roundness and Surface Texture Effects on Fall Velocity, Particle 255
Routine Analysis of Carbonates in Unconsolidated Sediments, On the 622

Sabine Lake, the Gulf of Mexico, and Adjacent Water Bodies, Texas-Louisiana, Sediments of 608
Sadler, H. E., article by 864
Sahu, B. K., reply to Dixon's Discussion 274
Sahu, Discussion of Article "Transformation of Weight Frequency and Number Frequency Data in Size Distribution Studies of Clastic Sediments" by Basanta K. 273
Salcrete at Rockaway Point, New York, Heavy Mineral Concentration and Sastrugi-Like Deflation Furrows in a Beach 837
Salt Flat, West Texas, Occurrence and Origin of Quaternary Dolomite of 263
Sames, C. W., article by 126
Sample Splitter for Moist, Saturated or Suspended Sediment, A 632
Sampling and Analytical Methods for the Regional Geo-Chemical Study of a Subsurface Carbonate Formation, Evaluation of 755
Sampling and Analytical Methods for the Regional Geochemical Study of a Subsurface Carbonate Formation, Evaluation of 755
Sampling Device for Semiconsolidated and Unconsolidated Sediments 818
Sand Facies in the Breckland, Eastern England, Regional and Local Components in the Areal Distribution of Surface 209
Sand Movement along Equilibrium Beaches North of San Francisco 341
Sand, Opal, Zeolites, and Clays is an Eocene Neritic Bar 248
Sand Particles" by Briggs, Louis I. McCulloch David S. C., and, Discussion of Article "The Hydraulic Shape of 271
Sand, Plastic-Tube Coring Technique for Unconsolidated Wet 241
Sand Tracers, Fluorescent 468
Sands—a Review, Factors Influencing the Early Stages of the Compaction of Clays and 1085
Sandstone, Cementation, Experimental Study of 977
Sandstone, Devonshire, England, Imbrication, Paleocurrents and other Sedimentary Features in the Lower New Red 940
Sandstones, Improved Methods of Heavy Mineral Separation and Counting Suitable for Fine Grained 629
Sandstones Shown by Groove Molds on Intra-Bed Surfaces, Peeblesshire, Scotland, Composite Nature of Silurian Flysch 237
San Francisco, Sand Movement along Equilibrium Beaches North of 341
Sarawak, Malaysia, and its Significance in Relation to Washouts in Coal Seams, A Peat Landslide in 244
Sastrugi-Like Deflation Furrows in a Beach Salcrete at Rockaway Point. New York, Heavy Mineral Concentration and 836
Saturated or Suspended Sediment, A Sample Splitter for Moist 632
Schermerhorn, L. J. G., note by 831
Schlee, John, article by 403
Schnitker, Detmar, Pilkey O. H. and Pevear, D. R., article by 462
Scotland, Composite Nature of Silurian Flysch Sandstones Shown by Groove Molds on Intra-bed Surfaces, Peeblesshire, 237
Scotland, Sedimentary History of Upper Ordovician Geosynclinal Rocks, Girvan 677
Scott, K. M., Hubert J. F., Walton, E. K., note by 237
Seams, A Peat Landslide in Sarawak, Malaysia, and its Significance in Relation to Washouts in Coal 244
Sections of Heavy Mineral Residue, New Technique for Preparing Polished Thin 268
Sediment, A Sample Splitter for Moist, Saturated or Suspended 632
Sediment Analyzer, A Modified Woods Hole Rapid 403
Sediment of Sabin Lake, The Gulf of Mexico and Adjacent Water Bodies, Texas-Louisiana 608
Sedimentation, Alacran Reef Lagoon, Mexico, Coral Pinnacle 1058
Sedimentation in Saharjuri Coalfield, Bihar, India, Lower Gondwana 960
Sedimentary Features in the Lower New Red Sandstone, Devonshire, England, Imbrication, Paleocurrents and other 940
Sedimentary History of Upper Ordovician Geosynclinal Rocks, Girvan, Scotland 677
Sedimentary Origin in the Lower Limestone Shales (Basal Carboniferous) of South Pembrokeshire, Wales, Deformation Structures of 927
Sedimentary Structures, Transmitted Infrared Radiation: A Simple Method for Studying 1144
Sediment" by Basanta K. Sahu, Discussion of Article "Transformation of Weight Frequency and Number Frequency Data in Size Distribution Studies of Clastic 273
Sediments, Experimental Compaction Effects in Carbonate 747
Sediments from Long Island Sound (New York):

Physical and Chemical Properties Reviewed ... 234
Sediments in Prince William Sound, Southeast Alaska, Effects of the 1964 Alaskan Earthquake on Some Shallow-Water ... 992
Sediments in the Upper Carboniferous of Northern England, Shale Grit and Grindslow Shales: Transition from Turbidite to Shallow Water ... 90
Sediments, Mineralogy and Origin of Southern New England Shelf ... 1131
Sediments of Early Paleozoic of Central Bohemia, Geochemical Evolution of Clayey and Carbonate ... 230
Sediments of Lake Nicaragua and Lake Managua, Western Nicaragua, Bottom ... 522
Sediments of the Mediterranean Continental Shelf of Israel, The Distribution of Heavy Minerals and their Hydraulic Equivalents in ... 162
Sediments of the Red Sea and Their Implications on Marine Lithification, Deep-sea Carbonate ... 143
Sediments of the Sydney Basin, New South Wales, A Comparatvie Study of the Newcastle and Illawarra Coal Measure ... 1016
Sediments off Northeastern Asia, Continental Shelf ... 152
Sediments off Northwest North America, Mysid Statoliths in Shelf ... 839
Sediments, On the Routine Analysis of Carbonates in Unconsolidated ... 622
Sediments, Preparation of Thin-Sections of Unconsolidated or Friable ... 254
Sediments, Sampling Device for Semiconsolidated and Unconsolidated ... 818
Sediments, Terminology of Mixed Coarse-Fine ... 831
Sediments, The Shell Method of Impregnating Cores Of Unconsolidated ... 1118
Sediment-Size Distribution to Ecologic Factors in Buttonwood Sound, Florida Bay, Relationship of ... 66
Selective Dolomitization and the Origin of White Dolomitic Marble Bodies in the Middle Devonian of Western Utah ... 602
Semiconsolidated and Unconsolidated Sediments, Sampling Device for ... 818
Sengupta, Supriya, article by ... 362
Separation and Counting Suitable for Fine Grained Sandstones, Improved Methods of Heavy Mineral ... 629
Separation by Ultrasonic Elutriation and Analysis of the Fine Particles in Sandstone ... 1152
Settling Velocity of Regular Convex Geometric Particles, Effect of Shape upon the ... 370
Shackelton, Glaciers, Queen Maude Range, Antarctica, Petrology of Some Beacon Rocks Between the Axel Heiberg and ... 794
Shale Grit and Grindslow Shales: Transition from Turbidite to Shallow Water Sediments in the Upper Carboniferous of Northern England ... 90
Shales, A Study of the Relations of Depth, Porosity and Clay Mineral Orientation in Pennsylvanian ... 888
Shales (Basal Carboniferous) of South Pembrokshire, Wales, Deformation Structures of Sedimentary Origin in the Lower Limestone ... 927
Shales: Transition from Turbidite to Shallow Water Sediments in the Upper Carboni ferous of Northern England, Shale Grit and Grindslow ... 90
Shallow Streams, Planar Cross-Stratification Formed by the Lateral Migration of ... 742
Shallow-Water Sediments in Prince William Sound, Southeast Alaska, Effects of the 1964 Alaskan Earthquake on Some ... 992
Shallow Water Sediments in the Upper Carboniferous of Northern England, Shale Grit and Grindslow Shales: Transition from Turbidite to ... 90
Shape of Sand Particles" By Briggs, Louis I. McCulloch David S. and Moser Frank, Discussion of Article "The Hydraulic ... 271
Shape Upon the Settling Velocity of Regular Convex Geometric Particles, Effect of ... 370
Shapes of Blocks and Grains, The Expected ... 622
Shea, J. H., and Dennison, J. M., article by ... 81
Shelf Edge, Oolites on the Georgia Continental ... 462
Shelf of Israel, The Distribution of Heavy Minerals and Their Hydraulic Equivalents in Sediments of the Mediterranean Continental ... 162
Shelf Sediments, Mineralogy and Origin of Southern New England ... 1131
Shelf Sediments off Northeastern Asia, Continental ... 152
Shelf Sediments off Northwest North America, Mysid Statoliths in ... 839
Shell Method of Impregnating Cores of Unconsolidated Sediments, The ... 1118
Shells, Pyritization in Some Molluscan ... 1149
Shells, Relationship Between Depositional Environment and Uranium Concentrations of Molluskan ... 541
Shier, D. E., and Oaks, R. Q., Jr., note by ... 241
Shooting Flow in Laboratory Experiments, Backset Bedding Developed in ... 821
Shore Line, South Haven, Michigan, A Profile of the Four Moment Measures Perpendicular to a ... 1126
Shrinkage Cracks in Green River Formation (Eocene) Raven Ridge Area, Uinta Basin, Utah, Oriented, Linear- ... 1050
Significance of Laminae Deposited by Current Action in Clactic Rocks, Some Deductions on the Temporal ... 880
Silica-Bicarbonate Balance in the Ocean and Early Diagenesis ... 1075
Silica Diagenesis in Upper Jurassic Limestones of Southern England ... 1036
Siltstone with Loess and Volcanic Ash, Textural Comparison of John Day Volcanic ... 706
(Silurian) Carbonate Mud Mound of Indiana, Algal Cap for a Niagaran ... 455
Siltstones in Red Peak Member (Triassic), Central Wyoming, Non-Opaque and Opaque Grain Fabrics of ... 506
Silurian Flysch Sandstones Shown by Groove Molds on Intra-Bed Surfaces, Peeblesshire, Scotland, Composite Nature of ... 237
(Silurian) Reef, Lapel, Indiana, Turbidites in Dolomitized Flank Beds of Niagaran ... 563
Silver Peak Range, Esmeralda County, Nevada, Zeolitic Diagenesis of Mio-Pliocene Rocks of the ... 1007
Single Bed, Regional Patterns of Cross-Laminae and Convolutions in a ... 225
Sinuosity Stream Deposits, with Examples from the Devonian of Spitsbergen, High and Low ... 1102
Size Distribution Studies of Clastic Sediments" by Basanta K. Sahu, Discussion of Article "Transformation of Weight Frequency and Number Frequency Data in ... 273

Size, Precision of Linear and Areal Measurements in Estimating Grain . . . 397
Slaymaker, H. O., Chorley, R. J., Stoddardt D. R. and Haggett, P., article by . . . 209
Slides for X-ray Analysis of Clay Minerals, Preparation of Oriented . . . 1143
Slumps and Turbidity Flows, Thixotropy and the Mobilization of Clays in . . . 270
Smalley, I. J., article by . . . 669
Smalley, I. J., notes by . . . 626
Small-Scale Models of Turbidity Currents and The Criterion for Auto-Suspension . . . 202
Smith, J. W., and Robb, W. A., article by . . . 486
Smith, R. E., note by . . . 841
Soil Clay Mineralogy of the Pampa Plains, Argentina . . . 1026
Some Deductions on the Temporal Significance of Laminae Deposited by Current Action in Clastic Rocks . . . 880
Some Principles and Techniques used in Reconstructing the Hydraulic Parameters of a Paleo-Flow Regime . . . 5
Sound (New York): Physical and Chemical Properties Reviewed, Sediments from Long Island . . . 234
Sound, Southeast Alaska, Effects of the 1964 Alaskan Earthquake on Some Shallow-Water Sediments in Prince William . . . 992
South Africa, Ferruginized Surface Deposits from Natal and Zululand . . . 193
South Devon, England, The Petrology of Middle Devonian Limestones in . . . 176
South Haven, Michigan, A Profile of the Four Moment Measures Perpendicular to a Shore Line . . . 1126
South Pembrokeshire, Wales, Deformation Structures of Sedimentary Origin in the Lower Limestone Shales (Basal Carboniferous) of . . . 927
Southern British Honduras, Genesis of Recent Lime Mud in . . . 428
Spitsbergen, High and Low Sinuosity Stream Deposits, with Examples from the Devonian of . . . 1102
Splitter for Moist, Saturated or Suspended Sediment, A Sample . . . 632
Stages of the Compaction of Clays and Sands—a Review, Factors Influencing the Early . . . 1085
Staining, Carbonate Identification and Genesis as Revealed by . . . 491
Stanley, D. J., and Rhoads, D. C., article by . . . 1144
Statoliths in Shelf Sediments off Northwest North America, Mysid . . . 839
Stoddardt, D. R., Chorley, R. J., Haggett P. and Slaymaker, H. O., article by . . . 209
Stream Deposits, with Examples from the Devonian of Spitsbergen, High and Low Sinuosity . . . 1102
Streams, Planar Cross-Stratification formed by the Lateral Migration of Shallow . . . 742
Stringham's Discussion, Reply to . . . 272
Stringham, G. E., Discussion by . . . 271
Structures of Sedimentary Origin in the Lower Limestone Shales (Basal Carboniferous) of South Pembrokeshire, Wales, Deformation . . . 927
Structures, Transmitted Infrared Radiation: A Simple Method for Studying Sedimentary . . . 1144
Studies on Orientation and Imbrication of Pebbles with Respect to Cross-Stratification . . . 362
Studying Sedimentary Structures, Transmitted infrared Radiation: A Simple Method for . . . 1144
Subaqueous Mass-Movement in the Manning-Macleay Basin, Kempsey, New South Wales, Carboniferous . . . 719
Submarine Channel in Upper Miocene, Orange County, California, Deep . . . 700
Subsurface Carbonate Formation, Evaluation of Sampling and Analytical Methods for the Regional Geochemical Study of a . . . 755
Suitable for Fine Grained Sandstones, Improved Methods of Heavy Mineral Separation and Counting . . . 629
Suites, A Critique of Methods for Comparing Heavy Mineral . . . 57
Summerson, C. H., note by . . . 221
Surface Deposits from Natal and Zululand, South Africa, Ferruginized . . . 193
Surface Sand Facies in the Breckland, Eastern England, Regional and Local Components in the Areal Distribution of . . . 209
Surface Texture Effects on Fall Velocity, Particle Roundness and . . . 255
Surfaces, Peeblesshire, Scotland, Composite Nature of Silurian Flysch Sandstones Shown by Groove Molds, on Intra-Bed . . . 237
Suspended Sediment, A Sample Splitter for Moist, Saturated or . . . 632
Sutton, R. G., Lewis, T. L., note by . . . 225
Swain, F. M., article by . . . 522
Swope and Dennis Formations (Pennsylvanian), Missouri and Iowa, Petrology of the Carbonate Members of the . . . 576
Sydney Basin, New South Wales, A Comparative Study of the Newcastle and Illawarra Coal Measure Sediments of the . . . 1016

Technique for Preparing Polished Thin Sections of Heavy Mineral Residue, New . . . 268
Technique for Unconsolidated Wet Sand, Plastic-Tube Coring . . . 241
Techniques Used in Reconstructing the Hydraulic Parameters of a Paleo-Flow Regime, Some Principles and . . . 5
Teleki, P. G., article by . . . 468
Temporal Significance of Laminae Deposited by Current Action in Clastic Rocks, Some Deductions on the . . . 880
Ten Mile Creek Dolomite (Middle Devonian) near Toledo, Ohio, Dolomite-Insoluble Residue Relationships in the . . . 828
Terminology of Mixed Coarse-Fine Sediments . . . 831
Texas-Louisiana, Sediments of Sabine Lake, the Gulf of Mexico and Adjacent Water Bodies, . . . 608
Texas, Occurrence and Origin of Quaternary Dolomite of Salt Flat, West . . . 263
Texas, Processes of Conversion of Aragonite to Calcite with Examples from the Cretaceous of . . . 733
Textoris, D. A., article by . . . 455
Textural Comparison of John Day Volcanic Siltstone with Loess and Volcanic Ash . . . 706
Texture Effects on Fall Velocity, Particle Roundness and Surface . . . 255
The Distribution of Heavy Minerals and their Hydraulic Equivalents in Sediments of the Mediterranean Continental Shelf of Israel . . . 162
The Expected Shapes of Blocks and Grains . . . 626
"The Hydraulic Shape of Sand Particles" By Briggs, Louis I., McCullock, David S., and Moser, Frank, Discussion of Article . . . 271
The Petrology of Middle Devonian Limestones in South Devon, England . . . 176

The Properties of Glacial Loess and the Formation of Loess Deposits ... 669
The Shell Method of Impregnating Cores of Unconsolidated Sediments ... 1118
The Use of Factor Analysis in Determining Depositional Environments from Grain-Size Distributions ... 115
Their Origin and Environmental Interpretation, Crystal Molds in Dolomite: ... 221
Thin Section and in Grain Mount, Grain Size Measurement in ... 841
Thin Sections of Heavy Mineral Residue, New Technique for Preparing Polished ... 268
Thin-Sections of Unconsolidated or Friable Sediments, Preparation of ... 254
Thin-Walled Core-Retainer, A Tubular Spring Valve Used as a Tight And ... 973
Thixotropy and the Mobilization of Clays in Slumps and Turbidity Flows ... 270
Thomas, R. D., and Champlin, J. B. F., article by ... 1152
Till, East-Central North Dakota—A Preliminary Investigation, Color Variations within Glacial ... 75
Todd, T. W., article by ... 317
Toledo, Ohio, Dolomite-Insoluble Residue Relationships in the Ten Mile Creek Dolomite (Middle Devonian) near ... 828
Tracers, Fluorescent Sand ... 468
Transition from Turbidite to Shallow Water Sediments in the Upper Carboniferous of Northern England, Shale Grit and Grindslow Shales: ... 90
"Transformation of Weight Frequency and Number Frequency Data in Size Distribution Studies of Clastic Sediments: by Basanta K. Sahu, Discussion of Article ... 273
Transmitted Infrared Radiation: A Simple Method for Studying Sedimentary Structures ... 1144
(Triassic), West-Central Wyoming, Petrography of Red Peak Member, Chugwater Formation ... 904
Truncated Wave-Ripple Laminae ... 825
Tubular Spring Valve Used as a Tight and Thin-Walled Core-Retainer, A ... 973
Turbidite to Shallow Water Sediments in the Upper Carboniferous of Northern England, Shale Grit and Grindslow Shales: Transition from ... 90
Turbidites in Dolomitized Flank Beds of Niagaran (Silurian) Reef, Lapel, Indiana ... 536
Turbidity Currents and the Criterion for Auto-Suspension, Small-Scale Models of ... 202
Turbidity Flows, Thixotropy and the Mobilization of Clays in Slumps and ... 270

Ultrasonic Disruptor as an Aid to Wet Sieving, Using an ... 811
Ultrasonic Elutriation and Analysis of the Fine Particles in Sandstone, Separation by ... 1152
Unconformity at the Base of the Devonian Onondaga Limestone in New York State, Collophane Associated with the ... 260
Unconsolidated or Friable Sediments, Preparation of Thin-Sections of ... 254
Unconsolidated Sediments, On the Routine Analysis of Carbonates in ... 622
Unconsolidated Sediments, Sampling Device for Semiconsolidated and ... 818
Unconsolidated Sediments, The Shell Method of Impregnating Cores of ... 1118
Unconsolidated Wet Sand, Plastic-Tube Coring Technique for ... 241
Uinta Basin, Utah, Oriented, Linear-Shrinkage Cracks in Green River Formation (Eocene), Raven Ridge Area ... 1050
Upper Carboniferous of Northern England, Shale Grit and Grindslow Shales: Transition from Turbidite to Shallow Water Sediments in the ... 90
Uranium Concentrations of Molluskan Shells, Relationship Between Depositional Environment and ... 514
Use of Factor Analysis in Determining Depositional Environments from Grain-Size Distributions, The ... 115
Using an Ultrasonic Disruptor as an Aid to Wet Sieving ... 811
Utah-Nevada Middle Cambrian, Primary Dolostone Patterns in the ... 548
Utah, Oriented, Linear-Shrinkage Cracks in Green River Formation (Eocene), Raven Ridge Area, Uinta Basin ... 1050
Utah, Selective Dolomitization and the Origin of White Dolomitic Marble Bodies in the Middle Devonian of Western ... 602

Valve Used as a Tight and Thin-Walled Core-Retainer, A Tubular Spring ... 973
Variations within Glacial Till, East-Central North Dakota—A Preliminary Investigation, Color ... 75
Velocity of Regular Convex Geometric Particles, Effect of Shape upon the Settling ... 370
Velocity, Particle Roundness and Surface Texture Effects on Fall ... 255
Visual Estimates of Grain Abundance, Reliability of ... 81
Visualization Using Plaster of Paris, Flow ... 806
Volcanic Ash, Textural Comparison of John Day Volcanic Siltstone with Loess and ... 706
Volcanic Siltstone with Loess and Volcanic Ash, Textural Comparison of John Day ... 706

Wales, Deformation Structures of Sedimentary Origin in the Lower Limestone Shales (Basal Carboniferous) of South Pembrokeshire ... 927
Walker, R. G., article by ... 90
Walton, E. K., Hubert, J. F., Scott, K. M., note by ... 237
Washouts in Coal Seams, A Peat Landslide in Sarawak, Malaysia, and its Significance in Relation to ... 244
Water Sediments in the Upper Carboniferous of Northern England, Shale Grit and Grindslow Shales: Transition from Turbidite to Shallow ... 90
Water Bodies, Texas-Louisiana, Sediments of Sabine Lake, the Gulf of Mexico and Adjacent ... 608
Wave-Ripple Laminae, Truncated ... 825
Weight Frequency and Number Frequency Data in Size Distribution Studies of Clastic Sediments" by Basanta K. Sahu, Discussion of Article "Transformation of ... 273
Wermund E. G. and Moiola, R. J., note by ... 248
Western Utah, Selective Dolomitization and the Origin of White Dolomitic Marble Bodies in the Middle Devonian of ... 602
West Texas, Occurrence and Origin of Quaternary Dolomite of Salt Flat ... 263
Wet Sand, Plastic-Tube Coring Technique for Unconsolidated ... 241

Wet Sieving, Using an Ultrasonic Disruptor as an aid to ... 811
White Dolomitic Marble Bodies in the Middle Devonian of Western Utah, Selective Dolomitization and the Origin of ... 602
Wilford, G. E., note by ... 244
Williams, G. P., note by ... 255
Williams, G. E., article by ... 742
Williams, Brian P. J., and Kelling, Gilbert, article by ... 927
Wilson, R. C. L., article by ... 1036
Wood, R. M., and Wood W. H., article by ... 50
Wood, W. H. and Wood, R. M., article by ... 50
Woods Hole Rapid Sediment Analyzer, A Modified ... 403
Wyoming, Non-Opaque and Opaque Grain Fabrics of Siltstones in Red Peak Member (Triassic), Central ... 506
Wyoming, Petrography of Red Peak Member, Chugwater Formation (Triassic), West-Central ... 904
X-ray Analysis of Clay Minerals, Preparation of Oriented Slides for ... 1143
X-ray Diffraction Equipment, X-ray Radiography with ... 620
X-ray Diffraction, Quantitative Determination of Calcite-Dolomite-Apatite Mixtures by ... 358
X-ray Radiography with X-ray Diffraction Equipment ... 620
Yasso, W. E., note ... 837
Young, E. J., article by ... 57
Zeolites, and Clays in an Eocene Neritic Bar Sand, Opal ... 288
Zeolitic Diagenesis of Mio-Pliocene Rocks of the Silver Peak Range, Esmeralda County, Nevada ... 1007
Zone, Ankerite in the Green River Formation's Mahogany ... 486
Zululand, South Africa, Ferruginized Surface Deposits from Natal and ... 193

CONTENTS (*Continued from page* 847)

NOTES

Preparation of Oriented Slides for X-Ray Analysis of Clay Minerals ... *Mack Gipson, Jr.* 1143
Transmitted Infrared Radiation: A Simple Method for Studying Sedimentary Structures ... *Donald C. Rhoads and Daniel J. Stanley* 1144
Pyritization in Some Molluscan Shells ... *Philip R. Brown* 1149
Separation by Ultrasonic Elutriation and Analysis of the Fine Particles in Sandstone ... *Jerry B. F. Champlin and Rex D. Thomas* 1152
Concentric Marks: Current Indicators ... *K. Werner Barthel* 1156

DISCUSSION

A Discussion of the Paper: "Fault Plane Features: An Alternate Explanation" By R. E. Riecker ... *Emile Rod* 1163

PUBLICATIONS RECEIVED ... 1165

ANNOUNCEMENTS

Formation of Eastern Section of S.E.P.M. ... 849
Best Paper Selections ... 849
S.E.P.M. Officer-Nominating Committee ... 849
General Announcement of 1967 S.E.P.M. Convention ... 1166
Constitution and By-Laws ... 1167

INDEX TO VOLUME 36 ... 1173